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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/552,229	10/07/2005	Wolfgang Dinkelacker	K0004/7006	6706	
64667 7550 0215/2008 LAW OFFICES OF PAUL E. KUDIRKA 40 BROAD STREET SUITE 300 BOSTON, MA 02109			EXAM	EXAMINER	
			SINGH, SUNIL K		
			ART UNIT	PAPER NUMBER	
			3732		
			MAIL DATE	DELIVERY MODE	
			02/15/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) DINKELACKER, WOLFGANG 10/552 229 Office Action Summary Examiner Art Unit Sunil K. Sinah -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 06 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 2-8 and 12-17 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) 10 and 11 is/are allowed. 6) Claim(s) 2-8 and 12-17 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

 Claims 2-8 and 12-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 17 recites a limitation where the screw has an underside with a recess having a surface in the form of a *negative cone* with a *cone base*. It is unclear how a negative cone has a positive cone base. It is also unclear to what the applicant is referring to as the *negative cone*.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- As best understood by the examiner, Claims 2-6 and 17 are rejected under 35
 U.S.C. 102(b) as being anticipated by Lustig et al (US 6.287.115).

Lustig et al. discloses an implant having: an implant body having a longitudinal axis; an implant top portion having a through-borehole (825 and 915), a first end that mate with the implant body at an interface (See Fig. Below) and at a second opposing end, a cylindrical recess (See Fig. Below) arranged coaxially with the through-borehole.

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the bottom of the cylindrical recess being formed as a truncated cone with a surface surrounding the through-borehole and a cone base facing towards the first end; a connecting screw (see Fig. Below) that passes through the through-borehole and engages a threaded borehole (see Fig. below); a borehole that surrounds a throughborehole (825 and 915) for connection screw and a recess (see Fig. Below) with a supporting area designed as a truncated cone (Shown in Figure below)(Fig. 1-17) for the screw head; a screw head having an underside that is designed as a female taper shown in Fig. 15 (reproduced in the Figure below); wherein the underside has a recess with a surface in the form of a negative cone with a cone base facing toward the first end (see Fig. Below) an implant top that is adapted to the profile of the implant body by means of a screw (Column 2, Lines 58-67). It is inherent that the female taper and the truncated cone are brought into close contact when the connection screw is tightened. Lustig et al. further discloses an implant where the interface between the implant body and the implant top portion has a head that runs at a right angle to the longitudinal axis of the implant body (Figs. 15 and 43c); an interface between the implant body and the implant top that has a profile adapted to a comb shape of the jaw (Fig. 43c); a profile that is inclined toward the buccal side and the lingual side (Fig. 43c); and where the profile toward the buccal side and the lingual side is circularly rounded and also has a bell shape (Figs. 1-17, 43b and 43c). Lustig further discloses a law implant where the inclined faces of the buccal side and on the lingual side in the interface area of the implant body form an angle, which is larger than the angle between corresponding inclined surfaces on the buccal side and the lingual side in the interface area of the

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implant top portion; and where the rounded surface on the buccal side and the lingual side have a smaller radii of curvature in the interface area of the implant top portion than the corresponding rounded surfaces on the buccal side and on the lingual side in the interface area of the implant body (Figs. 15-17, 43b and 43c).

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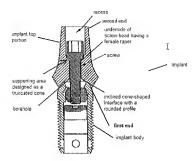
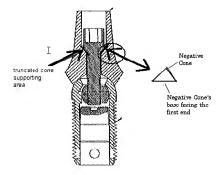


FIG. 15



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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 7,8 and 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lustig et al. (US 6,287,115) in view of Kirsh (US 4,793,808).

Lustig et al. discloses the invention substantially as claimed except for an implant top that is elastically deformable under pressure of a screw when tightened.

Kirsh teaches an implant where the implant top portion having an interface area that is elastically deformed under the action of a screw and where the elastic deformation exerts a restoring force in order ensure that the fitted connection is not loosened (Column 2, Lines 3-10 and Column 6, Lines 4-5). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Lustig by having an interface area of the implant top portion that is elastically deformable under pressure of a screw, as taught by Kirsh, in order to ensure that the fitted connection cannot be loosened

 Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lustig et al. (US 6,287,115) in view of Kirsh (US 4,793,808) and in further view of Balfour et al. (US 2003/0068599).

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Lustig et al./Kirsh discloses the invention substantially as claimed except for an implant where the bell shaped profile in the interface area has a circular concave part having a smaller radii of curvature than the corresponding circular convex part.

Balfour et al. teaches a dental implant having a bell shaped interface area (16) with a circular concave part having smaller radii of curvature than the corresponding circular convex part (Fig. 1). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Lustig/Kirsh by having an interface area in the bell shape, as taught by Balfour et al., in order to provide an alternate means of attaching the implant bottom portion to the implant top portion.

Allowable Subject Matter

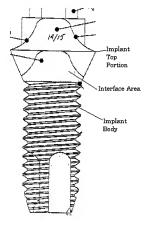
Claims 10 and 11 allowed.

Response to Arguments

9. Applicant's arguments filed 12/06/2007 have been fully considered but they are not persuasive. Applicant argues that Lustig does not disclose a connecting screw with a negative conical recess in the underside of the screw head where the cone base faces toward the first end and a cylindrical recess having a bottom portion being formed as a truncated cone with a surface surrounding the through-borehole and a cone base facing towards the first end. The examiner disagrees. As shown in the Figure Above (see rejection), Lustig does in fact disclose a cylindrical recess having a bottom portion in the form of a truncated cone with a surface surrounding the through-borehole and a cone base facing towards the first end; and the underside of the screw head having a form of a negative cone with a cone base facing toward the first end (see the

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reproduced figure in the rejection above). Applicant further argues that Balfour does not teach a structure that includes an interface area between an implant body and an implant top portion which has an approximately bell-shaped profile. The examiner disagrees. The figure reproduced below, shows that Balfour does in fact teach an interface area having a bell-shaped profile.



Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunil K. Singh whose telephone number is (571) 272-3460. The examiner can normally be reached on Monday-Friday 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris L. Rodriguez can be reached on (571) 272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sunil K Singh/ Examiner Art Unit 3732

SKS 02/06/2008

/Cris L. Rodriguez/ Supervisory Patent Examiner, Art Unit 3732